Item no. 2402





User's Manual

Smart AC 200W with USB

By Wagan Tech

Thank you for purchasing Smart AC 200 Watt with USB by Wagan Tech. With normal care and proper treatment it will provide years of reliable service. Please read all operating instructions carefully before use.

GENERAL INFORMATION

Read, understand and comply with these instructions before using this inverter. Keep this User's Guide for future reference.

This inverter is powered from a 12 volt DC source and provides 200 Watts AC 60Hz through two North American standard outlets. The AC waveform is a modified sine wave (MSW) which approximates the sine wave of household electrical service. This inverter powers AC appliances up to 200 watts. An attached DC power cord connects to a 12V DC cigarette lighter socket. The cigarette lighter plug is removable to reveal an airline power plug. There is a USB power port that can be used to charge cell phones, PDAs and MP3 players. Safety features include automatic shutdown in the event of overheat, overload, under-voltage and over-voltage conditions.

OPERATING ENVIRONMENT/ USER RESPONSIBILITY

- The 12 volt supply must provide between 10 to 14.5 volts DC
- Make sure the inverter is connected to the correct voltage and polarity.
- Unplug or disconnect the inverter when it is not in use.
- Unplug the inverter when starting the vehicle's engine.
- Keep at least one inch of clearance around the inverter for air flow.
- Keep the inverter and all cords dry.
- Secure the Inverter to keep it from changing position while the vehicle is moving.
- Know the wattage requirements of your appliances. The appliance's total wattage can not exceed 200 watts.
- Do not connect the inverters AC output to another AC power source. Damage will result, voiding the inverter's warranty.
- Do not use an extension cord between the DC power source and the DC input of the inverter. An extension cord can create a voltage drop that can reduce efficiency and output.



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WARNINGS

- Keep the inverter away from children.
- Do not operate the inverter with wet hands because of an electrical shock hazard.
- This device produces voltage similar to wall outlets at home and should be treated with the same caution.

OPERATION

The cigarette lighter Adapter (DC plug) is fused at 20 amps. The plug allows the Inverter to be easily connected to a cigarette lighter socket or accessory socket in a vehicle. Removing the accessory socket plug allows the inverter to be powered from an airline power receptacle.

FOR POWER CORD WITH CIGARETTE LIGHTER ADAPTER INSTALLED:

- Insert the DC plug into the vehicles accessory socket
- Turn the ignition switch to the accessory position, if necessary.
- Insert appliance plug(s) into AC socket(s) at the front of the inverter.
- Turn on the power switch that is located on the front of the Inverter
- The green LED will light to confirm that AC output is present.
- After use, turn OFF the inverter and disconnect the plug from the accessory socket.

NOTE FOR VEHICLE USE

This inverter has features that will prevent your battery from being completely discharged. An automatic shutdown will initiate when the battery voltage is 10.5 volts. If this occurs we recommend operating your engine for 10-20 minutes to recharge the vehicle's battery.

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USB POWER PORT

When the inverter is powered, the USB Power Port provides 5 volts DC up to 0.5 Amps for charging cell phones, PDAs and MP3 players. The user supplies the charging/power adapter cord.

Follow the above instructions to power the inverter.

1. Connect the device to the adapter cord
2. Plug the USB connector into the USB Port
3. Turn on the device
4. After use, turn off the device and turn off the inverter.
5. Disconnect the USB connector from the inverter.
6. Disconnect the inverter from its power source.

CAUTIONS

If you use a battery charger to recharge your battery, be sure to disconnect the inverter first. Failure to disconnect the Inverter prior to connecting a charger may result in an input voltage spike that can damage the Inverter.

Powering this inverter with greater than 15 volts DC can damage the inverter and void the warranty.

Do not use an extension cord between the DC power source and the DC input of the Inverter. An extension cord on the DC input can create a voltage drop that can reduce efficiency and output.

Do not open the case of the inverter. There are no user serviceable parts inside.

Do not let the cord of the inverter or any appliance cord get wet. Do not operate this Inverter in or around water. Water can damage the Inverter. Water damage is not covered under warranty.



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MAINTENANCE

Little maintenance is required to keep your inverter operating properly. Periodically clean the exterior of the unit with a damp cloth to prevent accumulation of dust and dirt.

TROUBLESHOOTING

Operating a TV Monitor or TV/DVD or TV/VCR Combination

Picture tube type TVs and Monitors have a high initial surge of power when they are turned on. If the device does not start up on the first try, switch the device on every 2-3 seconds until the screen comes on. Some screens may take 2-5 tries before starting.

If the inverter does not appear to be functioning, check the following possible causes:

(1) Poor contacts - Clean contact parts thoroughly.

(2) DC receptacle has no power - Check fuse in the lighter socket circuit. Replace any blown fuse with same type and rating.

(3} Battery voltage is too low - Start the engine or recharge the battery. Replace battery if needed.

(4) Shuts down on overload. - Reduce the wattage of the load.

(5) Thermal shutdown. - Under heavy loads for extended periods of time, the inverter will shut down to prevent damage from excess heat. Reduce the load and allow the inverter to cool before restarting the inverter.

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SPECIFICATI0NS

Output voltage: 115VAC MSW Frequency: 60Hz

MODEL NO:	ITEM 2402
DC Input Voltage	12V (10-15V)
USB Output Voltage	5V
USB Output Current	O.5A MAX.
Output Wave Form	Modified Sine wave (MSW)
Output Power	200 Watts
Surge Power Capacity	500 Watts
Efficiency	Over 90%
No load Current	0.15amps DC
Battery low Shutdown	DC 8.5_ +O.5V
Thermal Shutdown (Automatic Recovery)	55 deg +/- 5 deg C
Fuse in Cigarette Lighter Adapter plug	20A
Power Switch	DC Input ON/OFF
Dimensions (L x W x H)	112x90x41 mm 4.375x3.55x1.65 in.
Net weight	850 Grams 29.8 Oz



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WAGAN Corp. Limited Warranty Registration Form

All WAGAN Corporation products are warranted to the original purchaser of this product.
Warranty Duration: This product is warranted to the original purchaser for a period of one (1) Year from the original purchase date, to be free of defects in material and workmanship. WAGAN Corporation disclaims any liability for consequential damages. In no event will WAGAN Corporation be responsible for any amount of damages beyond the amount paid for the product at retail. In the event of a defective item, please ship the item, prepaid, with a complete explanation of the problem, your name, address and daytime phone number. WAGAN Corporation will, at its option, replaces or repair the defective part. This warranty is void if the product has been damaged by accident, in shipment, unreasonable use, misuse, neglect, improper service, commercial use, repairs by unauthorized personnel or other causes not arising out of defects in materials or workmanship. This warranty is effective only if the product is purchased and operated in the USA and Canada and does not extend to any units which have been used in violation of written instructions furnished.
Warranty Disclaimers: This warranty is in-lieu of all warranties expressed or implied and no representative or person is authorized to assume any other liability in connection with the sale of our products. There shall be no claims for defects or failure of performance or product failure under any theory of tort, contract or commercial law including, but not limited to negligence, gross negligence, strict liability, breach of warranty and breach of contract.
Warranty Performance: During the above one (1) Year warranty period, a product with a defect will be replaced with a comparable model when the product is returned to WAGAN Corporation with an original store receipt. The replacement product will be in warranty for the balance of the one (1) Year warranty period.

- Please activate my limited warranty for WAGAN Corp.
- Enclosed copy of original sales receipt.

Name					
Mail Address					
Add'l Address					
City		State		Zip Code	
Item Purchased					
Store Name					
Date of Purchase					
Signature		Date			

All WAGAN Corporation Products must be registered within (30) days of purchased to activate this warranty.
Mail the complete registration form, along with a copy of the original receipt to:

Attn: Customer Service
WAGAN Corporation
3589 Yale Way, Fremont, CA 94538
Email: customerservice@wagan.com
Phone: (Toll Free) 1-800-231-5806 (Local) 1-510-490-9221
Hours of Operation: Monday through Friday 8:00 A.M. - 5:00 P.M. (P.S.T.)